PATENT COOPERATION TREATY

PCT/EP2003/008343

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	(PC1 Article 36 and Rule 70)	
Applicant's or agent's file reference P803154/WO/1	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/EP2003/008343	International filing date (day/month/year 29 July 2003 (29.07.2003)	Priority date (day/month/year) 18 December 2002 (18.12.2002)
International Patent Classification (IPC) or n B60R 22/195	ational classification and IPC	2002 (10.12.2002
Applicant	DAIMLERCHRYSLER AG	
This report is the international prelim Authority under Article 35 and transport		is International Preliminary Evamining
	11 Marting to Authore	30.
3. This report is also accompanied by Al	8 sheets, including this cover	sheet.
a. (sent to the applicant and to	o the International Bureau) a total of3_	sheets, as follows:
sheets of the descrip	otion claims and/or described	peen amended and are the basis of this report ority (see Rule 70.16 and Section 607 of the
sheets which supers	ede earlier sheets butt.: 1	y considers contain an amendment that goes as indicated in item 4 of Box No. I and the
b. (sent to the International	Bureau only) a total of (indicate to	
readable form only, as indic Administrative Instructions)	cated in the Supplemental Box Relating to	g and/or tables related thereto, in computer Sequence Listing (see Section 802 of the
4. This report contains indications relating	g to the following items:	
Box No. I Basis of the repor	t	
Box No. II Priority		
Box No. III Non-establishmen Box No. IV Lack of unity of its	at of opinion with regard to novelty, inventi	ve step and industrial applicability
		ty, inventive step or industrial applicability;
Commonts		
	the international application ns on the international application	
te of submission of the demand		at.:
22 January 2004 (22.01.200	Date of completion of 02. Feb	
me and mailing address of the IPEA/EP	Authorized officer	ruary 2005 (02.02.2005)
simile No.		
	Telephone No.	1

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2003/008343

Box	No. I	Basis of the report	C1/EP2003/008343
1. W	ith regar	I to the language, this report is based on the international application in the language in	
	whi	report is based on translations from the original language into the following languagh is language of a translation furnished for the purpose of:	ge,
	님	international search (under Rules 12.3 and 23.1(b))	
	片	publication of the international application (under Rule 12.4)	
	Ш	international preliminary examination (under Rules 55.2 and/or 55.3)	
2 11/2			
furi ana	n regard nished to l are not	to the elements of the international application, this report is based on (replacen the receiving Office in response to an invitation under Article 14 are referred to in the innexed to this report):	nent sheets which have been iis report as "originally filed"
	The in	ternational application as originally filed/furnished	
\boxtimes	the de	cription:	
	pages*	1-13	, as originally filed/furnishe
	pages*	received by this Authority on	, oguiry mou/taimsne
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	pages*	, as amended (together with	any statement) under Article 1
	pages*	received by this Authority on 13 Jar	nuary 2005 (13.01.2005)
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الأسكا	pages		
	pages*	1-5	_, as originally filed/furnished
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	- ocquei	ce listing and/or any related table(s) – see Supplemental Box Relating to Sequence List	ing.
	The ame	ndments have resulted in the cancellation of:	
	_	description, pages	
		claims, Nos.	
	T the	drawings, sheets/figs	
İ		sequence listing (specify):	•
,	ans	table(s) related to sequence listing (specify):	
	his repo	t has been established as if (some of) the amendments annexed to this report and list they have been considered to go beyond the disclosure as filed as indicated in	ted below had+ 1
<u>(</u>		(c)).	the Supplemental Box
Ĭ	the	description, pages	
Ī	une	laims, Nos.	
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	any	able(s) related to sequence listing (specify):	
· / / / / / / / / / / / / / / / / / / /			
		some or all of those sheets may be marked "superseded."	
PCT/	IPEA/40	(Box No. I) (January 2004)	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Box No.	. III Non-establishment of opin	ion with regard to novelty, inventive step and industrial applicability
The que applica	estions whether the claimed inventi ble have not been examined in resp	ion appears to be novel, to involve an inventive step (to be non obvious), or to be industrial sect of:
	the entire international application	on.
\boxtimes	claims Nos.	12,13
becau	use:	
	the said international application	n, or the said claims Nos.
-	relate to the following subject m	n, or the said claims Nos
\boxtimes	the description, claims or drawin	gs (indicate particular elements below) or said claims Nos12,13
S	are so unclear that no meaningful ee supplemental sh	opinion could be formed (specify):
	ee aubbrementat an	leet
		·
	the claims, or said claims Nos.	are so inadequately supported
	by the description that no meaning	grai opinion could be formed.
	no international search report has	been established for said claims Nos
	the nucleotide and/or amino acid s Administrative Instructions in that	sequence listing does not comply with the standard provided for in Annex C of the t:
	the written form	has not been furnished
		does not comply with the standard
	the computer readable form	has not been furnished
		does not comply with the standard
	the tables related to the nucleotide the technical requirements provide	and/or amino acid sequence listing, if in computer readable form only, do not comply with d for in Annex C-bis of the Administrative Instructions.
	see Supplemental Box for further d	letails.
DOTE:	MPEA/400 (Per No. III) (I	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
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Box No. IV	Lack of unity of invention
1. I	response to the invitation to restrict or pay additional fees the applicant has:
	restricted the claims.
	paid additional fees.
	paid additional fees under protest.
	neither restricted nor paid additional fees.
2. This not	Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, o invite the applicant to restrict or pay additional fees.
3. This Author	ority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
Comp	lied with.
not c	omplied with for the following reasons:
	İ
	1
Consequently	, this report has been established in respect of the following parts of the international application:
K 2	l parts.
ti	e parts relating to claims Nos.
_	

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- 1. The application does not satisfy the requirements of PCT Article 6 because claim 12 is not clear:
 - The interaction between the displacement of the spiral hubs and the engagement of the pin disk with the perforated disk is not clearly defined; this is considered to be essential to the definition of the invention.
 - The terms "pin disk" and "perforated disk" are unclear. The location of the pin(s) is not defined. The same applies to the perforation in the perforated disk.
 - The extent to which grooves (39) can engage with openings (40) is not clear. The drawings (figures 5 and 6) do not provide any clarification.
- 2. The application does not satisfy the requirements of PCT Article 5 because the application does not disclose the invention in claims 12-13 in a manner sufficiently clear and complete for it to be carried out by a person skilled in the art.
 - Figures 5 and 6 do not show parts 37, 38 and 39 with sufficient accuracy for them to be identified as "pin disk", "perforated disk" and "grooves". The description (from page 12, third paragraph, to page 13) does not provide any

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

further information defining these terms more precisely.

- Furthermore, the last paragraph (page 13) appears to be contradictory. It appears to indicate that power is transmitted from the motor 20 to the ratchet 13 until the pin disk 37 re-engages in the perforated disk 38. This appears to conflict with the last two paragraphs on page 12.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV

Lack of unity of the invention

This Authority has determined that the international application contains multiple inventions or groups of inventions that are not so linked as to form a single general inventive concept (PCT Rule 13.1), as follows:

I: Claims 1-5

Seatbelt lock with a preventive tensioning device

II: Claims 6-9

Deflection unit for a seatbelt lock with a preventive tensioning device

III: Claims 10-11

Synchronisation unit for a seatbelt lock with a preventive tensioning device

IV: Claims 12-13

Synchronisation unit for a seatbelt lock with a preventive tensioning device

The reasons are as follows: the four independent claims 1, 6, 10 and 12 have only the following common feature "seatbelt lock with a preventive tensioning device", which is well-known from the prior art.

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Supp	lemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: IV

The application thus fails to meet the requirement of unity of invention, since there is no technical relationship among the subjects of claims 1, 6, 10 and 12 (PCT Rule 13.2).

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V. Reasoned statement under Article citations and explanations support	35(2) with regard to novelty	, inventive step or industrial app	licability;
1. Statement			
Novelty (N)	Claims	1-11	YES
	Claims		NO
Inventive step (IS)	Claims	1-11	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

- Citations and explanations
 - 1. Invention I

Claims 1-5 satisfy the requirements of PCT Article 33(2) to (4), because their subject matter is novel, involves an inventive step and is industrially applicable.

1.1 **DE 199 41 435 A (D1)** (see figures 1 and 2; and column 5, line 22 to column 6, line 4) discloses the features appearing in the preamble of claim 1, namely a

(the reference signs relate to D1)

"seatbelt lock 11 with a preventive tensioning device, which device moves the seatbelt lock from an operating position to a lower safety position (see column 5, line 40 to column 6, line 4), and which device comprises an energy storage mechanism 19 and a drive unit 35, the seatbelt lock 11 being held under pretension in the operating position by the energy storage mechanism 19 (see column 5, line 40 to column 6, line 4), and the drive unit 35 returning the seatbelt lock 11 from the safety position to the

operating position (see column 5, lines 24-34)".

The subject matter of claim 1 differs from the seatbelt lock known from D1 by virtue of the features in its characterising part. D1 indeed discloses no comfort position that is higher than the operating position (position while vehicle is in motion and no risk is detected). The subject matter of claim 1 is therefore novel.

This difference makes insertion of the belt tongue easier and thus enhances comfort. The problem addressed could be considered that of enhancing comfort. The available prior art does not suggest this difference. The subject matter of claim 1 therefore involves an inventive step.

The subject matter of claim 1 relates to a seatbelt lock used in motor vehicles and is therefore likewise industrially applicable.

- 1.2 The subject matter of dependent claims 2-5 is inevitably novel, involves an inventive step and is industrially applicable.
- 2. Invention II

Claims 6-9 satisfy the requirements of PCT Article 33(2) to (4), because their subject matter is novel, involves an inventive step and is industrially applicable.

2.1 EP 0 711 687 A (D5) discloses a deflection unit for a seatbelt lock with a preventive tensioning device and represents the prior art closest to claim 6.

The subject matter of claim 6 differs from the deflection unit known from D5 by virtue of the features in its characterising part. The subject matter of claim 6 is therefore novel.

These features define a ratchet-and-pawl mechanism which automatically permits a reversing process by means of the synchronisation function. This ratchet-and-pawl mechanism is neither known from nor suggested by the prior art. The subject matter of claim 6 therefore involves an inventive step.

The subject matter of claim 6 relates to a deflection unit for a seatbelt lock and is therefore used in motor vehicles. It is thus industrially applicable.

- 2.2 The subject matter of dependent claims 7-9 is inevitably novel, involves an inventive step and is industrially applicable.
- 3. Invention III

Claims 10 and 11 satisfy the requirements of PCT Article 33(2) to (4), because their subject matter is novel, involves an inventive step and is industrially applicable.

3.1 D1 and DE 202 09 965 U (D2) disclose synchronisation units which lock a spring inside a housing. These documents are considered to be the prior art closest to claim 10. The subject matter of claim 10 differs from the synchronisation unit known from D1 or D2 by virtue of the features in its characterising part.

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The subject matter of claim 10 is therefore novel.

The use of locking blocks inside a housing for the spring of a seatbelt lock tensioning device cannot be considered a conventional measure and is not known from the prior art. The subject matter of claim 10 therefore involves an inventive step.

The subject matter of claim 10 relates to a synchronisation unit for a seatbelt lock and is therefore used in motor vehicles. It is thus industrially applicable.

3.2 The subject matter of dependent claim 11 is inevitably novel, involves an inventive step and is industrially applicable.